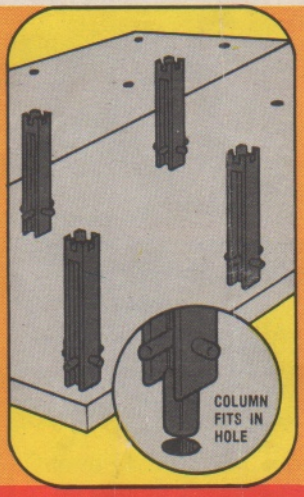
GIRDER & PANEL™

BUILDING SET

with working elevator



FOUNDATION BOARDS

The three boards may be used individually, side by side, offset or separated for long buildings.

Examples, with diagrams of first floor, are shown with photos of the buildings.

COLUMNS

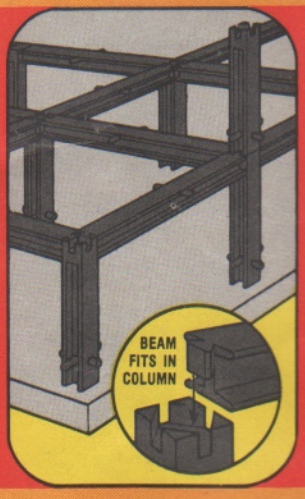
1. Push peg-ends of columns into holes in the Board.
2. Turn Columns so that sides line up with edge of board.

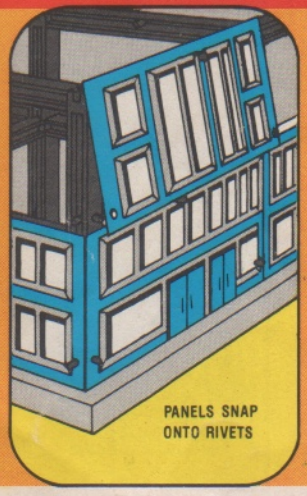
BEAMS

1. Fit ends of Beams into slots on top of Columns.
2. Connect all the Columns with Beams.

TO BUILD UP

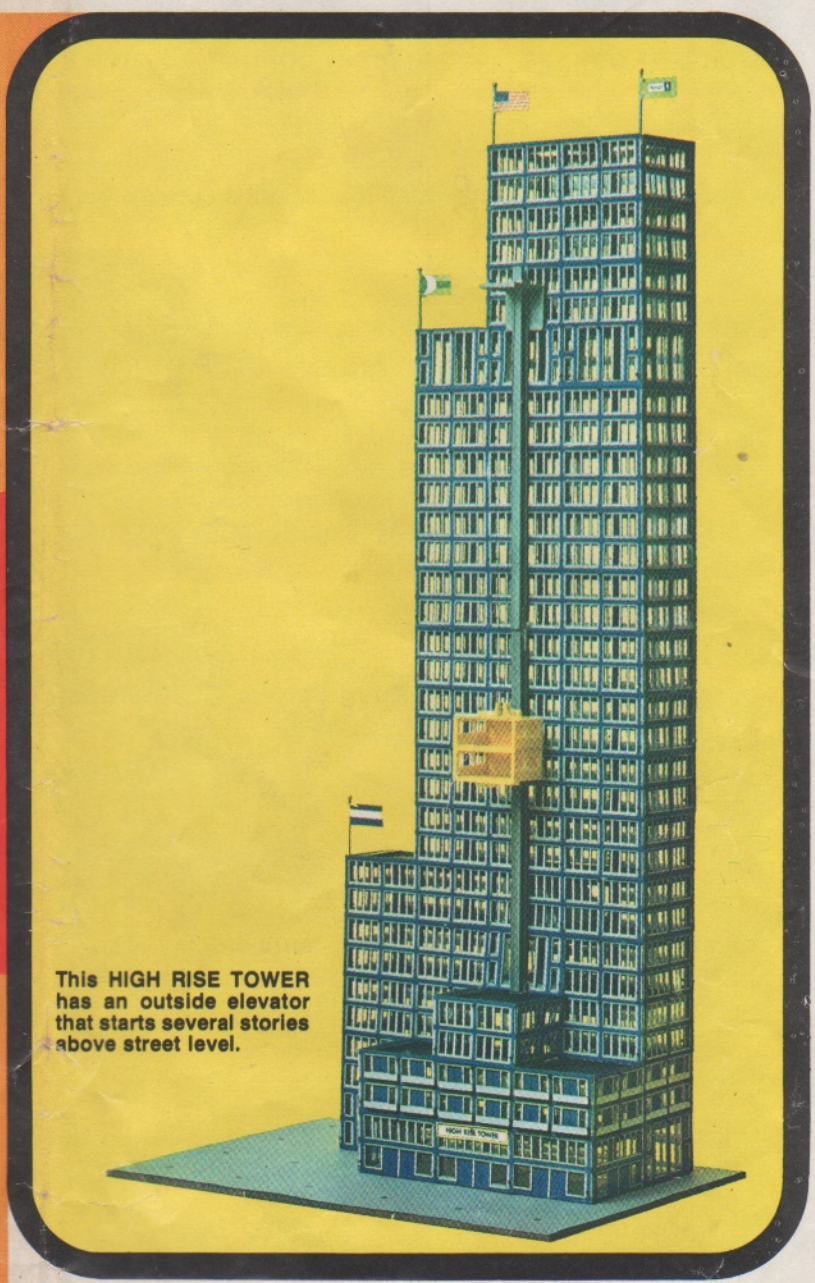
1. Above the first floor, Column pegs fit into the tops of the Columns below.
2. Connect Columns with Beams.
3. Keep building up as far as you want.





PANELS

1. Separate all the Panels from the sheet. (The different types of Panels are shown on next page.)
2. Starting at the bottom, snap the Wall Panels onto the rivets on the building.



This HIGH RISE TOWER has an outside elevator that starts several stories above street level.

U.S. Pat. 3,132,443

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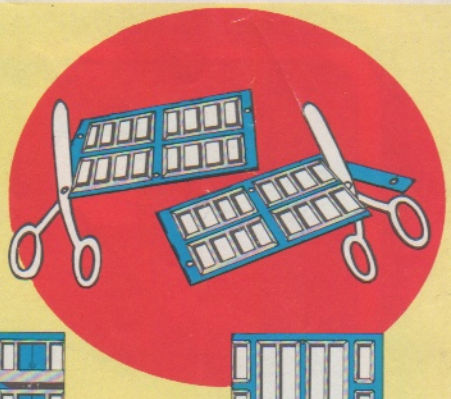
by its Div. KENNER PRODUCTS, Cincinnati, Ohio 45202

Kenner®

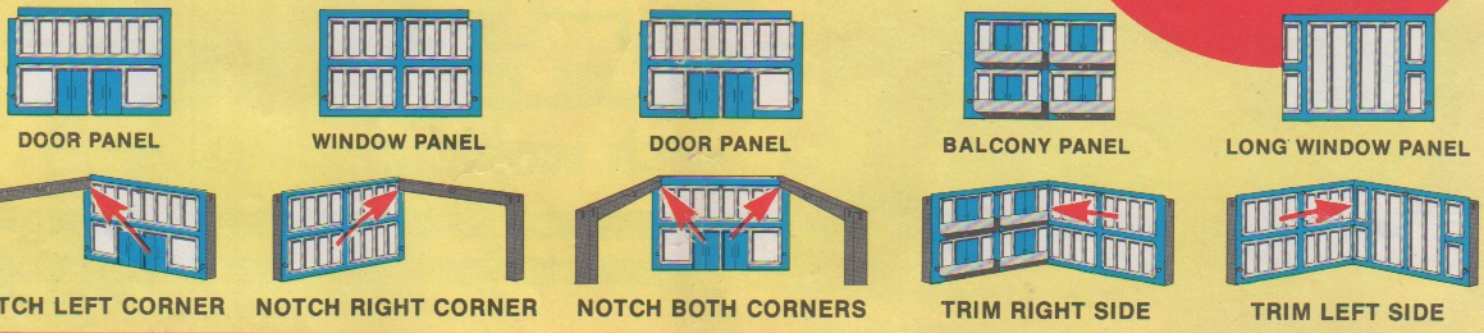
MAKING PANELS FIT SPECIAL SITUATIONS

When your building has an inside corner, the Panel will not fit because a Beam or another Panel is in the way. To make the panel fit, you will have to notch or trim the Panel.



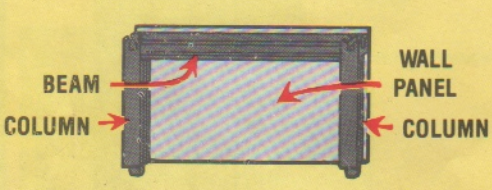
NOTCH • Using safety scissors, cut a corner approximately ¼ inch down and ¼ inch across on the side where notch is needed.

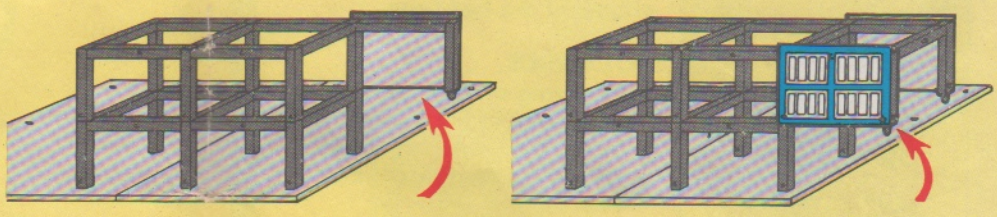
TRIM • Using safety scissors cut ¼ inch completely off on side.



CANTILEVER CONSTRUCTION

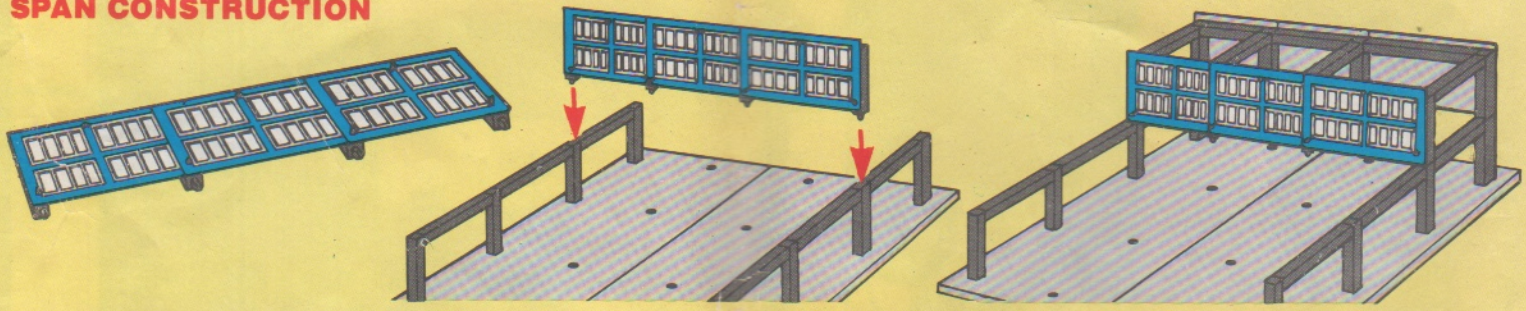
A Cantilever is a part of a building that extends outward from the main structure without bracing from below.





1. Build a wall with 2 columns, a beam and a wall panel.
2. Put it in place on the main structure.
3. Build another wall and attach it opposite the first one.
4. Connect all the Columns with Beams. Add a Wall Panel on the outside. You can now build additional stories on top of the cantilevered section.

SPAN CONSTRUCTION

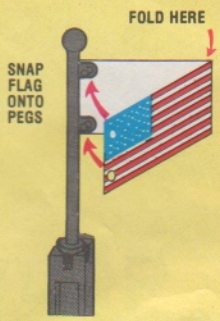


A wall of two or more units to "bridge" an open foundation.

1. Build two walls the length of the span and attach Wall Panels.
2. Lift the two units onto the foundation and connect all Columns with Beams. Close the ends with Wall Panels.
3. Build up additional stories on the span.

FLAGS & FLAG POLES

1. Flags are double length, fold in half.
2. Snap the folded flags onto pegs on each side of flag pole.
3. Flag Pole fits into the top of a Column.

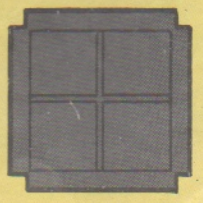


SIGNS

1. Snap sign onto rivet of a Beam.

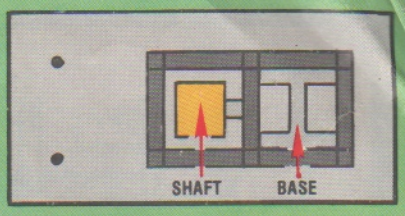
ROOF PANELS

1. Fit Roof Panels into the squares formed on top of your building.



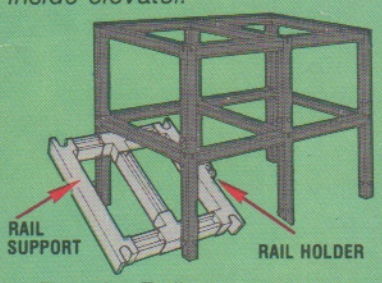
INSTALLING THE ELEVATOR

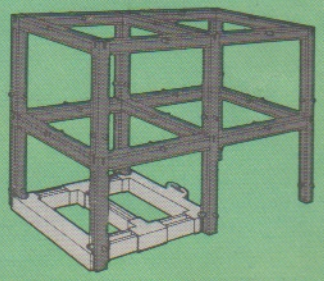
The elevator is designed to run either six or twelve building sections high and requires at least two sections in width for **inside elevators** and one section in width for **outside elevators.** Build the building framework and decide where you want to locate the elevator. On an inside elevator, install elevator before you attach panels; on an outside elevator, attach panels directly behind rail before installing rail.



1 ELEVATOR RAIL SUPPORT

The Rail Support fits on the ground floor or higher floor of the building, next to where the elevator will be. *Illustrated is an inside elevator.*



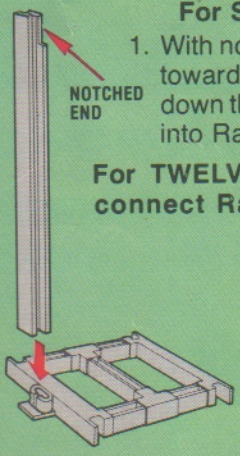


1. Turn the Rail support at an angle with Rail Holder pointed toward where elevator will run.
2. Slide Rail Support all the way into the bottom building section; then push Rail Support down flat.

2 ELEVATOR RAIL

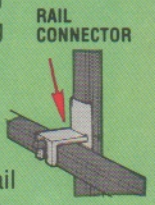
The elevator cab slides up and down on the rail.

For SIX section high building.



1. With notched end of Rail up and facing toward the Rail Support, insert Rail down through shaft from top of building into Rail Holder in Support.

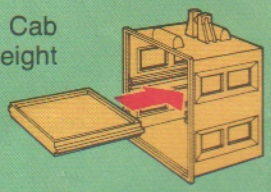
For TWELVE section high building, connect Rails with Rail Connector.

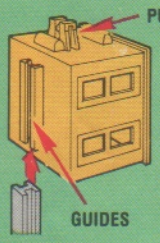


1. Push the Notched End of Rail into each end of Connector.
2. Insert connected Rail down through shaft from top of building into Rail Holder in Support.
3. The Connector fits over the rivet of the Beam on top of sixth building section.

3 ELEVATOR CAB

1. The Floor in the middle of the Cab will slide out for use as a freight elevator.



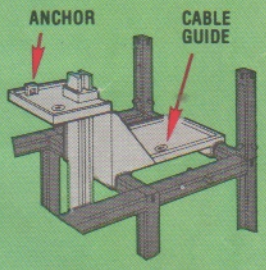


2. Slide Cab onto Elevator Rail using the Guides on back of Cab. (Note: If Rail has been inserted incorrectly, Cab will not slide down onto Rail.)

4 ELEVATOR CABLE GUIDE

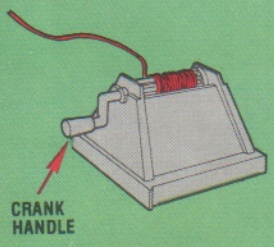
The Cable Guide fits on top of the fifth or eleventh building section.

1. Slide Cable Guide down over Rail.
2. Push Guide down until it rests on the Beams.

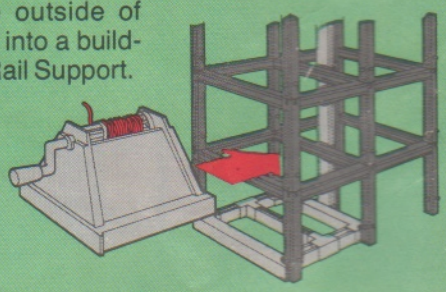


5 ELEVATOR WINCH

The Winch may be located in any building section directly above the Rail Support but it works best in the lower part of your building.



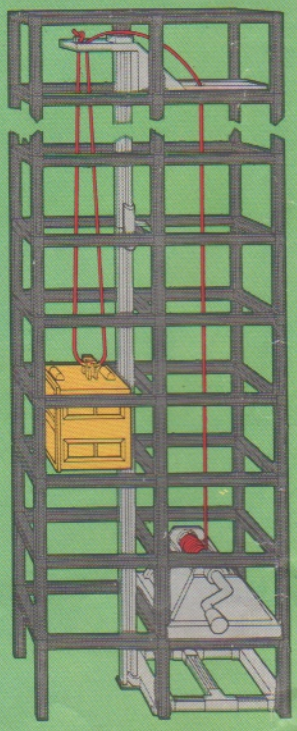
1. Tie one end of string through hole in Winch Reel.
2. Wind string onto reel by turning Crank.
3. With Crank Handle outside of building, slide Winch into a building section over the Rail Support.

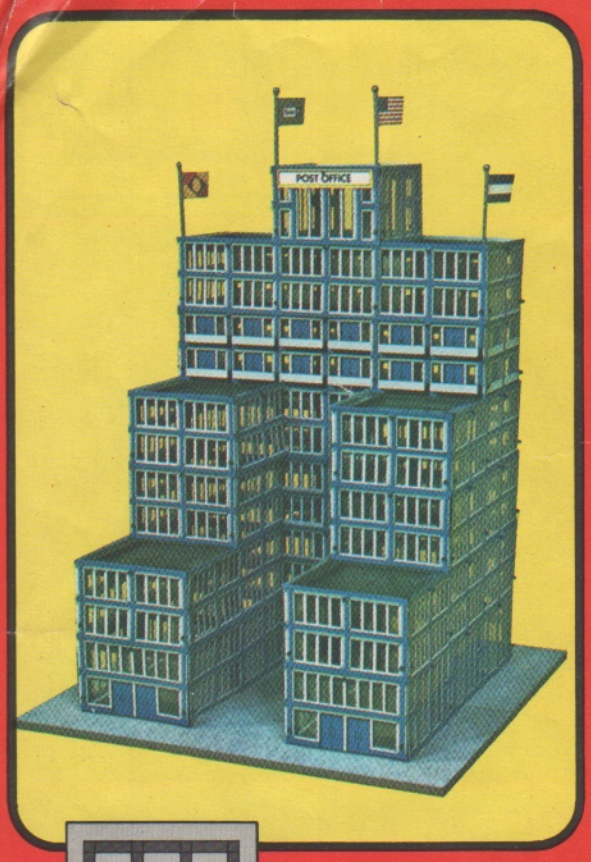


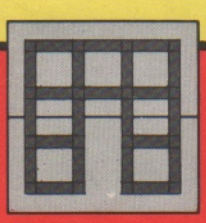
Note: Turn handle slowly. Turning too fast may tilt the Winch, causing string to wind unevenly.

6 ELEVATOR CABLE

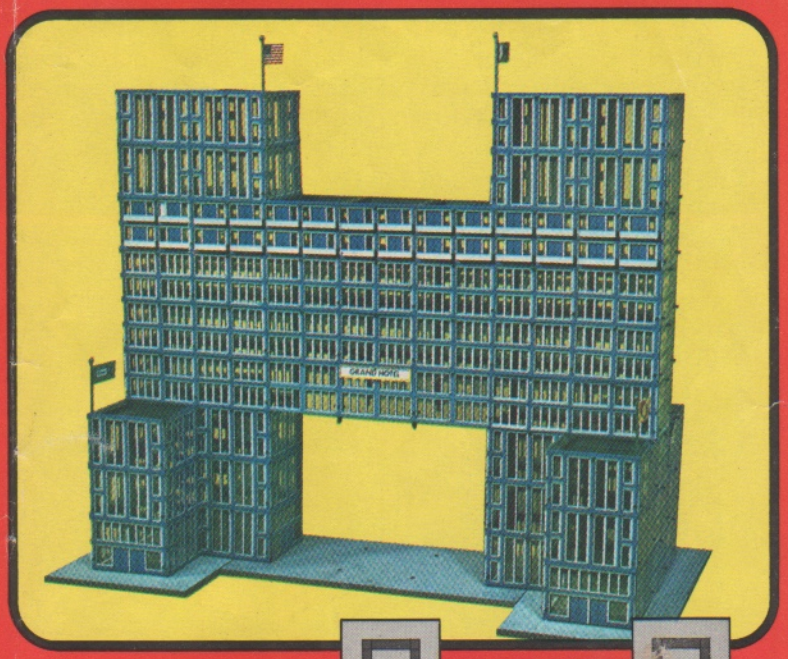
1. Unwind some string from Winch Reel as needed.
2. Work the string up through the building to the Cable Guide.
3. Pass string up through Hole in rear of Cable Guide.
4. Run string down through the round hole at front of Cable Guide.
5. Push string through pulley on top of Cab.
6. Bring end of string back up through square hole in Cable Guide and tie to Anchor.
7. Finish your building.



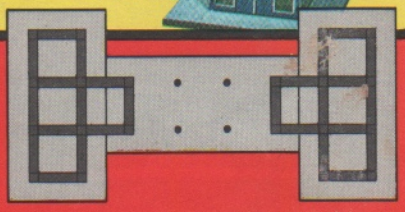


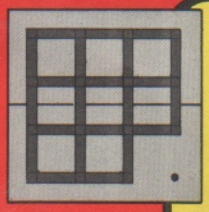


The POST OFFICE building here is built in a "U" shape.



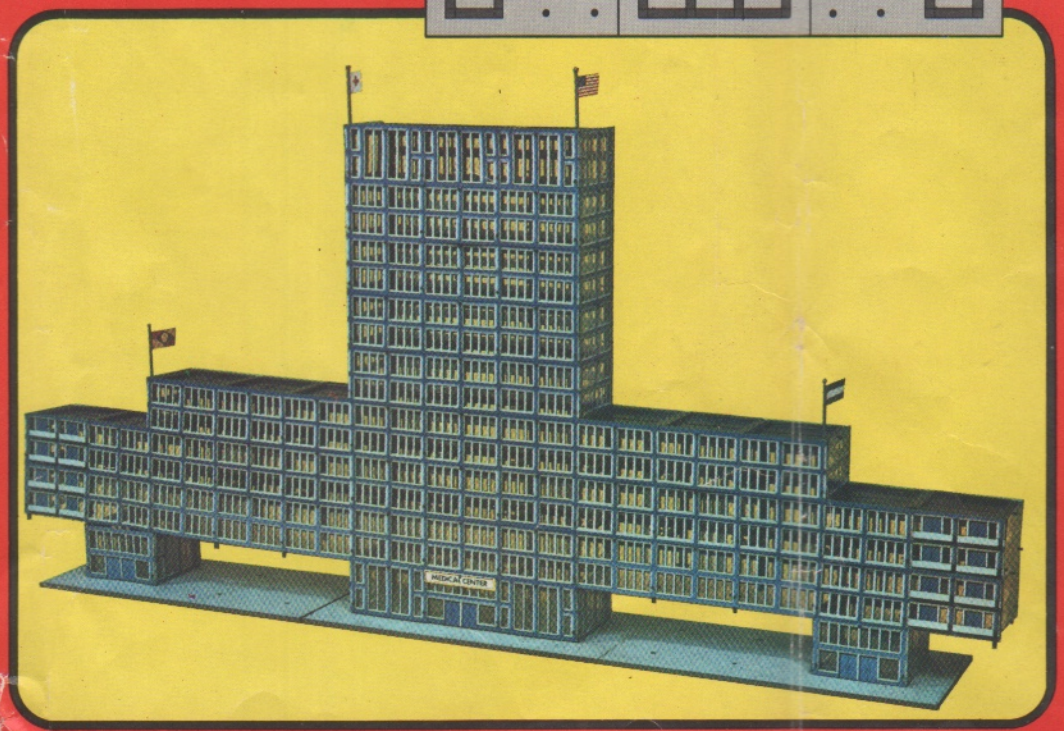
Here, in this large HOTEL, is a good example of what can be done with span construction.

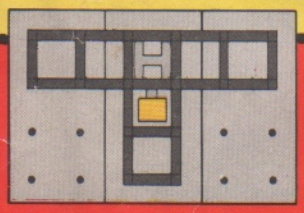




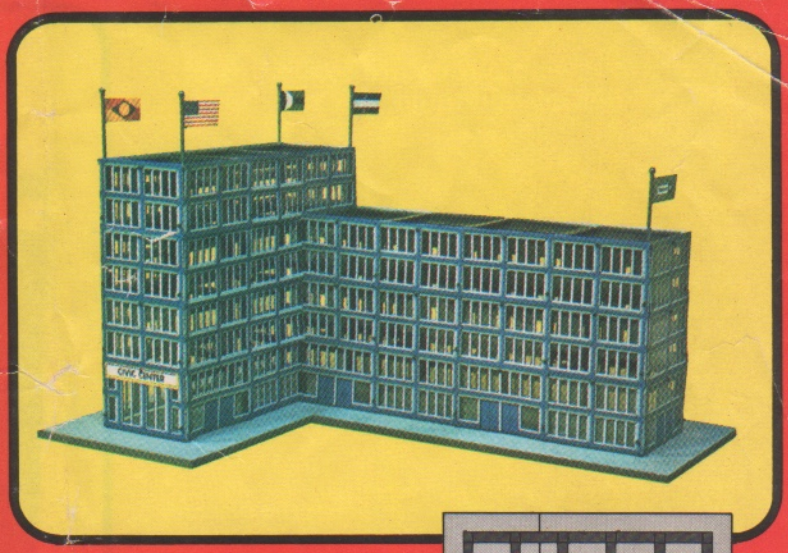
This is a modern HIGH RISE TOWER with a smaller tower connected by a passageway over a breezeway.

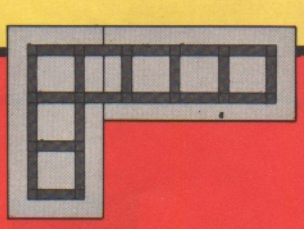
The large, modern MEDICAL CENTER shown here is a good example of combining span and cantilever construction.



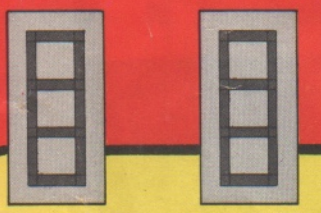


This unusual HIGH RISE TOWER office building has an elevator with stops at various platform levels.

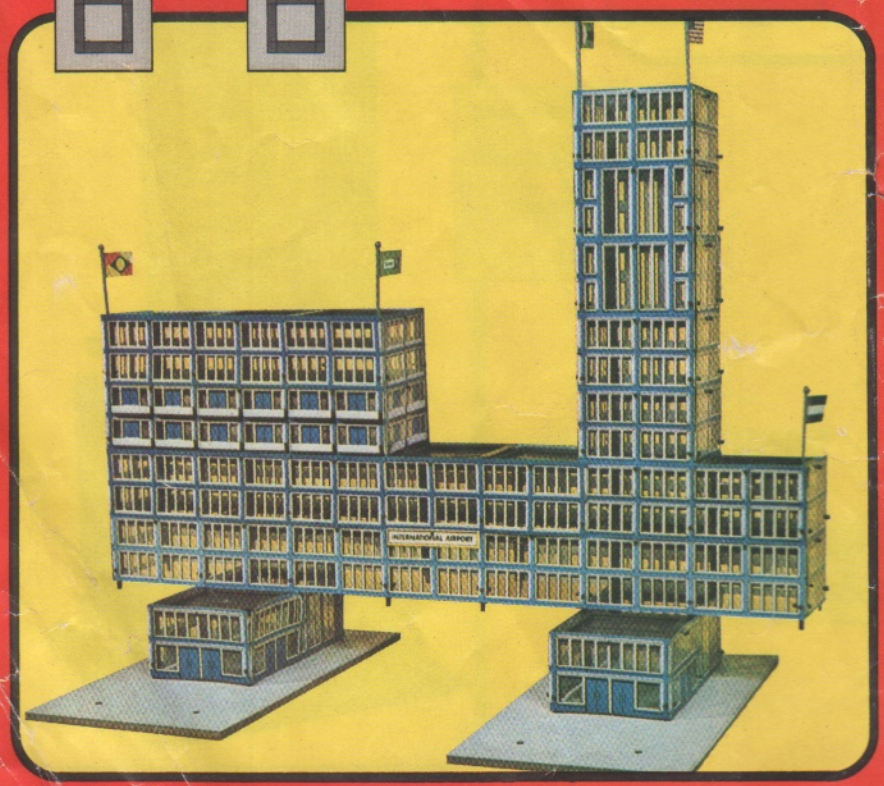




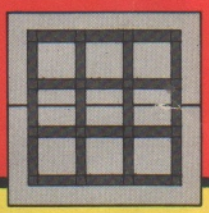
Modern "L" shaped buildings like this CIVIC CENTER are easy-to-build.



INTERNATIONAL AIRPORT is a good example of both span and cantilever construction. It has a control tower and airport hotel.



GRAND HOTEL, with its covered arcade entrances, is an excellent example of cantilever construction.

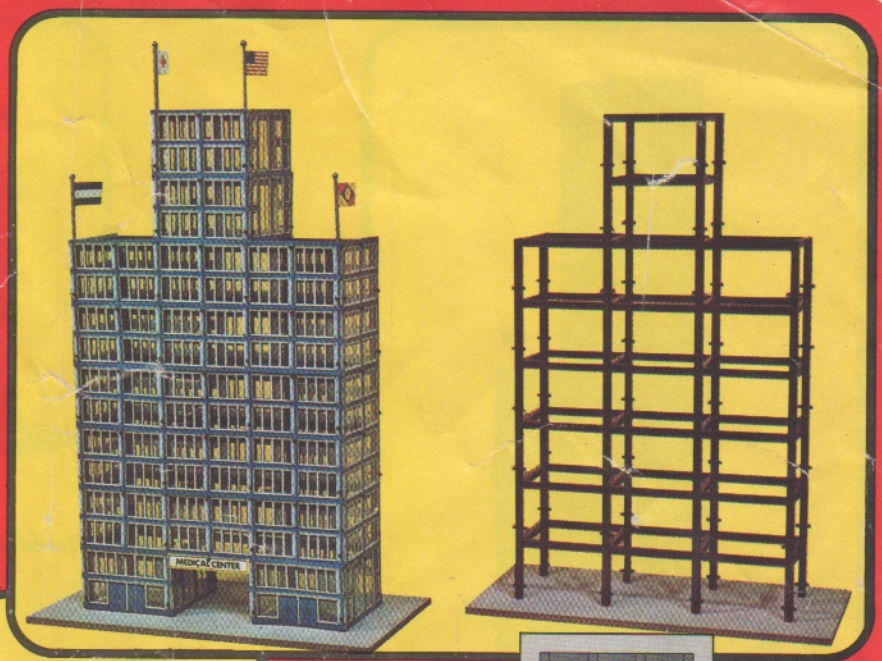


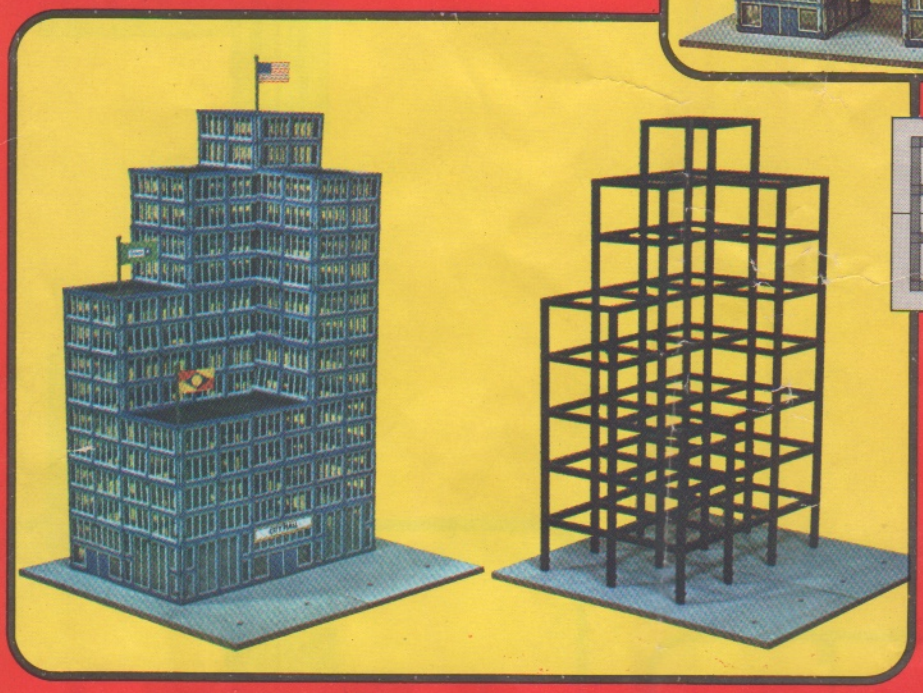
On the following pages are examples of some types of buildings you can build.

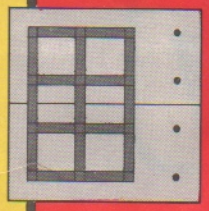
The first two examples, pictured here, show the buildings as they will look when finished and the frame work using only Columns and Beams.

For your first building, start with this easy-to-build MEDICAL CENTER at the right.

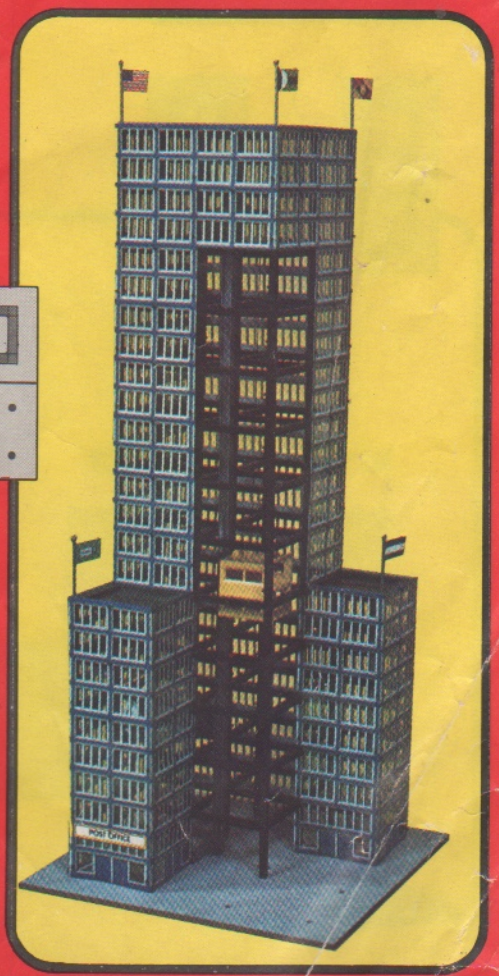
Now that you know how to use the parts, try this interesting CITY HALL below, which has more levels and different angles.

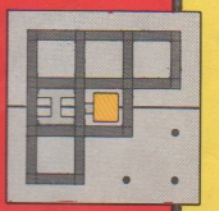




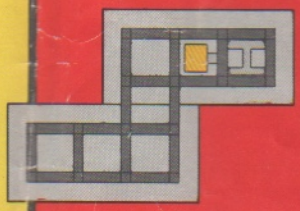


Foundation Board diagrams of the FIRST FLOOR PLAN are pictured with each example.





This tall POST OFFICE building was built with an open elevator shaft.



The boards are in an offset position for this modern TRANSIT CENTER.